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Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Navy									DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development				R-1 ITEM NOMENCLATURE PE 0207163N: AMRAAM							
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
Total Program Element	6.902	3.589	2.633	0.000	2.633	2.984	2.994	3.063	3.126	Continuing	Continuing
0981: AMRAAM	6.902	3.589	2.633	0.000	2.633	2.984	2.994	3.063	3.126	Continuing	Continuing
A. Mission Description and Budget Item Justification											
This joint Navy/Air Force program is structured in response to the Joint Service Operational Requirement and Mission Element Need Statement to develop an air superiority air-to-air missile with significant improvements in operational utility and combat effectiveness. This program supports the integration of the AMRAAM into Navy aircraft with analysis of Navy unique applications, aircraft missile integration tasks, product improvement efforts including missile software upgrade development and procurement of hardware to support Navy test and evaluation tasks.											
B. Program Change Summary (\$ in Millions)											
	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total						
Previous President's Budget	8.509	3.604	0.000	0.000	0.000						
Current President's Budget	6.902	3.589	2.633	0.000	2.633						
Total Adjustments	-1.607	-0.015	2.633	0.000	2.633						
• Congressional General Reductions		0.000									
• Congressional Directed Reductions		0.000									
• Congressional Rescissions	0.000	0.000									
• Congressional Adds		0.000									
• Congressional Directed Transfers		0.000									
• Reprogrammings	-1.350	0.000									
• SBIR/STTR Transfer	-0.257	0.000									
• Program Adjustments	0.000	0.000	2.633	0.000	2.633						
• Rate/Misc Adjustments	0.000	-0.015	0.000	0.000	0.000						
Change Summary Explanation											
Technical: Not Applicable											

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<p>Schedule: Delays integrating developmental hardware into flight testing and lower than planned flight test efficiencies extended the completion date for Engineering and Manufacturing Development (EMD) to September 2009. This resulted in a corresponding change to the forecasted OT start/complete dates.</p> <p>FY2010 missile contract award has been moved from February to March per executive service (USAF) schedule decision.</p> <p>Phase 4 SIP/SWUP start delayed to 4th quarter FY2009 due to schedule adjustments.</p> <p>MRM Concept Development start delayed to 4th quarter FY2009 due to revisions in task definition.</p> <p>FY11 from previous President's Budget is shown as zero because no FY11-15 data was presented in President's Budget 2010.</p>		

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Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy								DATE: February 2010			
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>				R-1 ITEM NOMENCLATURE PE 0207163N: <i>AMRAAM</i>				PROJECT 0981: <i>AMRAAM</i>			
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
0981: <i>AMRAAM</i>	6.902	3.589	2.633	0.000	2.633	2.984	2.994	3.063	3.126	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		
A. Mission Description and Budget Item Justification This joint Navy/Air Force program is structured in response to the Joint Service Operational Requirement and Mission Element Need Statement to develop an air superiority air-to-air missile with significant improvements in operational utility and combat effectiveness. This program supports the integration of the AMRAAM into Navy aircraft with analysis of Navy unique applications, aircraft missile integration tasks, product improvement efforts including missile software upgrade development and procurement of hardware to support Navy test and evaluation tasks.											
B. Accomplishments/Planned Program (\$ in Millions)											
						FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	
Continued aircraft integration Continue Aircraft integration activities and test and evaluation for Navy unique requirements. <i>FY 2009 Accomplishments:</i> Continued aircraft integration activities and test and evaluation for Navy unique requirements. <i>FY 2010 Plans:</i> Continue aircraft integration activities and test and evaluation for Navy unique requirements. <i>FY 2011 Base Plans:</i> Continue aircraft integration activities and test and evaluation for Navy unique requirements.						0.704	1.292	0.873	0.000	0.873	
Continued to identify potential improvements						2.507	0.850	0.400	0.000	0.400	

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B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Continue engineering support of AMRAAM, including investigation and analysis of technologies that offer potential improvements in AMRAAM lethality/performance and compatibility with related weapons systems. FY 2009 Accomplishments: Continued engineering support of AMRAAM, including investigation and analysis of technologies that offer potential improvements in AMRAAM lethality/performance and compatibility with related weapons systems. Conducted Operational Flight Program (OFP) efforts. FY 2010 Plans: Continue engineering support of AMRAAM, including investigation and analysis of technologies that offer potential improvements in AMRAAM lethality/performance and compatibility with related weapons systems. Conducted Operational Flight Program (OFP) efforts. FY 2011 Base Plans: Continue engineering support of AMRAAM, including investigation and analysis of technologies that offer potential improvements in AMRAAM lethality/performance and compatibility with related weapons systems. Conducted Operational Flight Program (OFP) efforts.						
Continued Phase 4 EMD efforts System engineering and test activities in AMRAAM Phase 4 program which include conducting Proof of Manufacturing (POM) testing, final testing of Phase 4 software, aircraft integration/aircraft Operational Flight Program (OFP) efforts and Phase 4 test/equipment tasks. Continue system engineering/ aircraft integration activities for System Improvement Program (SIP) with emphasis on Navy unique compatibility requirements and Navy aircraft integration/compatibility requirements. Commence Medium Range Missile (MRM) Concept Development to fund the initial exploratory efforts for future technological advancements to combat evolving threats.		3.691	1.447	1.360	0.000	1.360

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B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2009 Accomplishments: Continued system engineering and test activities in AMRAAM Phase 4 program which include conducting Proof of Manufacturing (POM) testing, final testing of Phase 4 software, aircraft integration/ aircraft Operational Flight Program (OFP) efforts and Phase 4 test/equipment tasks. Began system engineering/aircraft integration activities for System Improvement Program (SIP) with emphasis on Navy unique compatibility requirements and Navy aircraft integration/compatibility requirements. Commenced Medium Range Missile (MRM) Concept Development to fund the initial exploratory efforts for future technological advancements to combat evolving threats.						
FY 2010 Plans: Continue system engineering and test activities in AMRAAM Phase 4 program which includes aircraft integration/aircraft Operational Flight Program (OFP) efforts and Phase 4 test/equipment tasks. Continue system engineering/aircraft integration activities for System Improvement Program (SIP) with emphasis on Navy unique compatibility requirements and Navy aircraft integration/compatibility requirements.						
FY 2011 Base Plans: Continue system engineering and test activities in AMRAAM Phase 4 program which includes aircraft integration/aircraft Operational Flight Program (OFP) efforts and Phase 4 test/equipment tasks. Continue system engineering/aircraft integration activities for System Improvement Program (SIP) with emphasis on Navy unique compatibility requirements and Navy aircraft integration/compatibility requirements.						
Accomplishments/Planned Programs Subtotals		6.902	3.589	2.633	0.000	2.633

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C. Other Program Funding Summary (\$ in Millions)

Line Item	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	FY 2012	FY 2013	FY 2014	FY 2015	Cost To Complete	Total Cost
• WPN/ 220600: <i>AMRAAM</i>	88.525	138.079	155.553	0.000	155.553	191.018	230.197	238.201	262.368	1,807.545	4,605.190
• MPAF/3479: <i>AMRAAM</i>	202.741	272.714	355.358	0.000	355.358	311.456	473.683	458.075	462.619	4,556.857	13,986.103
• RDTE,AF/673777: <i>AMRAAM</i>	48.633	49.971	63.252	0.000	63.252	61.322	58.078	77.145	58.898	0.000	837.399

D. Acquisition Strategy

Annualized AMRAAM production procurements will continue across the FYDP with periodic pre-planned product improvements and Value Engineering Change Proposals (VECP). The 328th Armament Systems Group (328 ARSG) will revisit instituting a Long Term Pricing Agreement (LTPA) upon Raytheon's ability to consistently achieve monthly deliveries of 30 - 35 AIM120Ds.

E. Performance Metrics

The AIM-120 AMRAAM program is meeting cost, schedule, performance, funding and life cycle sustainment in accordance with the Acquisition Program Baseline. Contractor is meeting the production schedule.

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Product Development (\$ in Millions) <table border="1" style="width:100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th rowspan="2">Cost Category Item</th> <th rowspan="2">Contract Method & Type</th> <th rowspan="2">Performing Activity & Location</th> <th rowspan="2">Total Prior Years Cost</th> <th colspan="2">FY 2010</th> <th colspan="2">FY 2011 Base</th> <th colspan="2">FY 2011 OCO</th> <th>FY 2011 Total</th> <th rowspan="2">Cost To Complete</th> <th rowspan="2">Total Cost</th> <th rowspan="2">Target Value of Contract</th> </tr> <tr> <th>Cost</th> <th>Award Date</th> <th>Cost</th> <th>Award Date</th> <th>Cost</th> <th>Award Date</th> <th>Cost</th> </tr> </thead> <tbody> <tr> <td>Primary Hdw Development (EGLIN))</td> <td>SS/CPAF</td> <td>RAYTHEON COMPANY Tucson AZ</td> <td align="right">42.453</td> <td align="right">0.789</td> <td>Jan 2010</td> <td align="right">0.701</td> <td>Jan 2011</td> <td align="right">0.000</td> <td></td> <td align="right">0.701</td> <td align="right">4.050</td> <td align="right">47.993</td> <td align="right">47.993</td> </tr> <tr> <td>Award Fees (EGLIN)</td> <td>SS/CPAF</td> <td>Various Various</td> <td align="right">5.990</td> <td align="right">0.139</td> <td>Jan 2010</td> <td align="right">0.124</td> <td>Jan 2011</td> <td align="right">0.000</td> <td></td> <td align="right">0.124</td> <td align="right">0.715</td> <td align="right">6.968</td> <td align="right">6.968</td> </tr> <tr> <td>Primary Hdw Development (DAHLGREN)</td> <td>WR</td> <td>NSWC DAHLGREN D C XDM1 Dahlgren VA</td> <td align="right">0.067</td> <td align="right">0.025</td> <td>Nov 2009</td> <td align="right">0.025</td> <td>Nov 2010</td> <td align="right">0.000</td> <td></td> <td align="right">0.025</td> <td align="right">0.107</td> <td align="right">0.224</td> <td align="center">Continuing</td> </tr> <tr> <td>Primary Hdw Development</td> <td>Various/ Various</td> <td>Various Various</td> <td align="right">2.150</td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td align="right">0.000</td> <td align="right">2.150</td> <td align="center">Continuing</td> </tr> <tr> <td>Primary Hdw Development (NAWCAD)</td> <td>WR</td> <td>NAWCAD Patuxent River MD</td> <td align="right">0.562</td> <td align="right">0.207</td> <td>Nov 2009</td> <td align="right">0.221</td> <td>Nov 2010</td> <td align="right">0.000</td> <td></td> <td align="right">0.221</td> <td align="right">0.866</td> <td align="right">1.856</td> <td align="center">Continuing</td> </tr> <tr> <td>Primary Hdw Development (NAWCWD)</td> <td>WR</td> <td>NAWCWD China LakeCA</td> <td align="right">0.540</td> <td align="right">0.087</td> <td>Nov 2009</td> <td align="right">0.089</td> <td>Nov 2010</td> <td align="right">0.000</td> <td></td> <td align="right">0.089</td> <td align="right">0.361</td> <td align="right">1.077</td> <td align="center">Continuing</td> </tr> <tr> <td>Prior Years Hardware Dev</td> <td>Various/ Various</td> <td>Various Various</td> <td align="right">20.520</td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td align="right">0.000</td> <td align="right">20.520</td> <td align="center">Continuing</td> </tr> <tr> <td align="right" colspan="3">Subtotal</td><td align="right">72.282</td><td align="right">1.247</td><td></td><td align="right">1.160</td><td></td><td align="right">0.000</td><td></td><td align="right">1.160</td><td align="right">6.099</td><td align="right">80.788</td><td align="right">54.961</td></tr> </tbody> </table>														Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Primary Hdw Development (EGLIN))	SS/CPAF	RAYTHEON COMPANY Tucson AZ	42.453	0.789	Jan 2010	0.701	Jan 2011	0.000		0.701	4.050	47.993	47.993	Award Fees (EGLIN)	SS/CPAF	Various Various	5.990	0.139	Jan 2010	0.124	Jan 2011	0.000		0.124	0.715	6.968	6.968	Primary Hdw Development (DAHLGREN)	WR	NSWC DAHLGREN D C XDM1 Dahlgren VA	0.067	0.025	Nov 2009	0.025	Nov 2010	0.000		0.025	0.107	0.224	Continuing	Primary Hdw Development	Various/ Various	Various Various	2.150	0.000		0.000		0.000		0.000	0.000	2.150	Continuing	Primary Hdw Development (NAWCAD)	WR	NAWCAD Patuxent River MD	0.562	0.207	Nov 2009	0.221	Nov 2010	0.000		0.221	0.866	1.856	Continuing	Primary Hdw Development (NAWCWD)	WR	NAWCWD China LakeCA	0.540	0.087	Nov 2009	0.089	Nov 2010	0.000		0.089	0.361	1.077	Continuing	Prior Years Hardware Dev	Various/ Various	Various Various	20.520	0.000		0.000		0.000		0.000	0.000	20.520	Continuing	Subtotal			72.282	1.247		1.160		0.000		1.160	6.099	80.788	54.961
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract																																																																																																																																					
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Remarks Remarks: Percentage of award fees actually awarded in past award fee periods is 15%																																																																																																																																																		

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APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>				R-1 ITEM NOMENCLATURE PE 0207163N: <i>AMRAAM</i>				PROJECT 0981: <i>AMRAAM</i>					
Support (\$ in Millions)													
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Development Support (BOEING)	SS/CPAF	MCDONNELL DOUGLAS CORP St Louis MO	5.654	0.400	Jan 2010	0.000		0.000		0.000	0.000	6.054	6.054
Development Support (NSMA)	WR	NAVY SYST MGT ACT Arlington VA	2.597	0.250	Dec 2009	0.200	Dec 2010	0.000		0.200	0.842	3.889	Continuing
Studies & Analyses - JHU/APL	SS/FFP	NAVSEASYS COM Washington DC	0.860	0.200	Jan 2010	0.200	Jan 2011	0.000		0.200	0.846	2.106	2.106
Prior Years Dev/Acft Integ	Various/ Various	Various Various	11.366	0.000		0.000		0.000		0.000	0.000	11.366	Continuing
Subtotal			20.477	0.850		0.400		0.000		0.400	1.688	23.415	8.160
Remarks													
Test and Evaluation (\$ in Millions)													
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Dev Test & Eval (NAWCWD)	WR	NAWCWD China LakeCA	5.806	1.292	Nov 2009	0.873	Nov 2010	0.000		0.873	3.574	11.545	Continuing
Subtotal			5.806	1.292		0.873		0.000		0.873	3.574	11.545	
Remarks													

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Management Services (\$ in Millions)

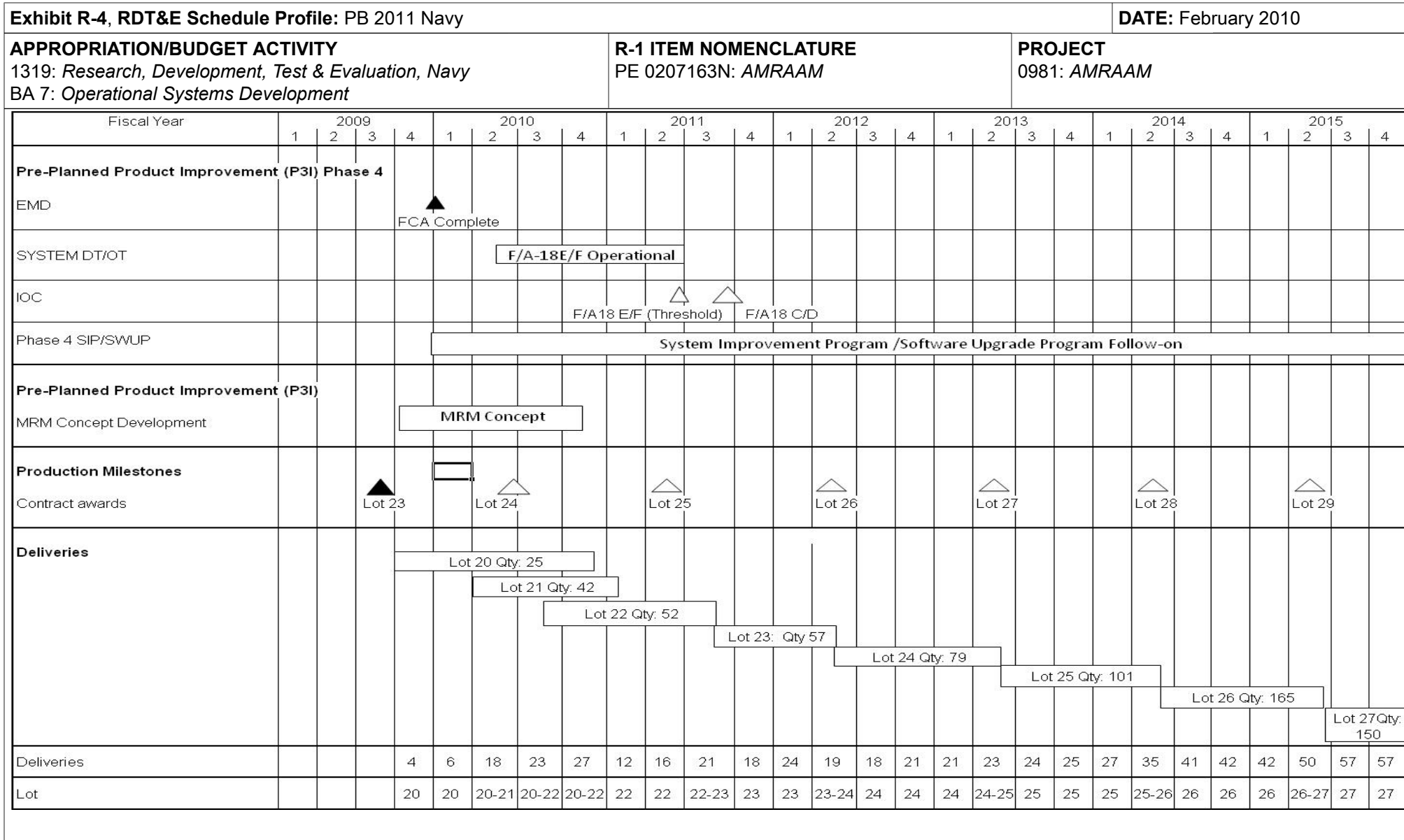
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Travel	MIPR	PMA-259 Eglin AFB FL	2.369	0.200	Oct 2009	0.200	Oct 2010	0.000		0.200	0.844	3.613	Continuing
Prior Years Management	Various/ Various	Various Various	4.002	0.000		0.000		0.000		0.000	0.000	4.002	Continuing
Subtotal			6.371	0.200		0.200		0.000		0.200	0.844	7.615	

Remarks

	Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	104.936	3.589		2.633		0.000		2.633	12.205	123.363	63.121

Remarks

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Exhibit R-4A, RDT&E Schedule Details: PB 2011 Navy			DATE: February 2010
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Schedule Details

Event	Start		End	
	Quarter	Year	Quarter	Year
EMD Completion Phase 4	4	2009	4	2009
Phase 4 SIP/SWUP Start (P3I Follow-On)	4	2009	4	2015
System DT/OT (F/A-18 E/F)	2	2010	2	2011
IOC F/A18 E/F (Threshold)	2	2011	2	2011
IOC F/A18 C/D	3	2011	3	2011
Medium Range Missile Concept Development	4	2009	4	2010
Production Lot 23 Contract Award	3	2009	3	2009
Production Lot 24 Contract Award	2	2010	2	2010
Production Lot 25 Contract Award	2	2011	2	2011
Production Lot 26 Contract Award	2	2012	2	2012
Production Lot 27 Contract Award	2	2013	2	2013
Production Lot 28 Contract Award	2	2014	2	2014
Production Lot 29 Contract Award	2	2015	2	2015
Production Deliveries - Lot 20	4	2009	4	2010
Production Deliveries - Lot 21	2	2010	4	2010
Production Deliveries - Lot 22	3	2010	3	2011
Production Deliveries - Lot 23	3	2011	2	2012
Production Deliveries - Lot 24	2	2012	2	2013

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Exhibit R-4A, RDT&E Schedule Details: PB 2011 Navy

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy
BA 7: Operational Systems Development

R-1 ITEM NOMENCLATURE

PE 0207163N: AMRAAM

PROJECT

0981: *AMRAAM*

	Start		End	
Event	Quarter	Year	Quarter	Year
Production Deliveries - Lot 25	2	2013	2	2014
Production Deliveries - Lot 26	2	2014	2	2015
Production Deliveries - Lot 27	2	2015	4	2015

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